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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,724	09/15/2003	Sachin Garg	630-044US	1503
47912 DEMONT & B	7590 10/03/2007 BREYER, LLC		EXAMINER SIKRI, ANISH	
100 COMMONS WAY, STE 250 HOLMDEL, NJ 07733			SIKRI, ANISH	
HOLMDEL, N	J 07755	•	ART UNIT	PAPER NUMBER
	ř		2143	
		<u>.</u>	MAIL DATE	DELIVERY MODE
		•	10/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	IN TO C				
	10/662,724	GARG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anish Sikri	2143					
e The MAILING DATE of this communication	appears on the cover sheet w	rith the correspondence addr	ress				
Period for Reply			5.11.6				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a . riod will apply and will expire SIX (6) MOI atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	<u>4 July 2007</u> .						
<u></u>	This action is non-final.						
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closed in accordance with the practice und	er Ex parte Quayle, 1935 C.t	J. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applica							
4a) Of the above claim(s) is/are with	drawn from consideration.						
5) Claim(s) is/are allowed. 6) Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.							
•	Claim(s) is/are objected to: Claim(s) are subject to restriction and/or election requirement.						
Application Papers		•					
9) ☐ The specification is objected to by the Exar	miner.						
10) ☑ The drawing(s) filed on <u>15 September 2003</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to	the drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the co	•						
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTC)-152.				
Priority under 35 U.S.C. § 119	•						
12) ☐ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority docum							
2. Certified copies of the priority docum			,				
 Copies of the certified copies of the application from the International Bu 	•	n received in this National 5	lage				
* See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	t received.					
Attachment(s)	_						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) o(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/15/2003, 12/27/04, 3/10/06.		Informal Patent Application					

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement submitted on 9/15/2003, 12/27/2004, and 3/10/2006 been considered by the Examiner and made of record in the application file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims **1-12** are rejected under 35 U.S.C. 102(b) as being unpatentable over Lyon et al (US Pat 6,333,917).

Consider Claim 1, Lyon et al clearly discloses the method of receiving a first plurality of protocol data units at a first input (Lyons et al Col 3, Lines 59-62) of a protocol-data-unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18), wherein all of the protocol data units received at said first input (Lyons et al Col 3, Lines 59-62) are en route to a first congestible node (Lyons et al, Col 6, Lines 7-19); receiving at a said protocol-data-unit excisor (Lyons et al, Col 3 Line 58) a metric of a queue (Lyons et al, Col 14, Lines 55-65) in a said first congestible node (Lyons et al, Col 6, Lines 7-19); and selectively dropping (Lyons et al, Col 6, Lines 25-30), at said protocol-data-unit excisor (Lyons et al, Col 3 Line 58), one or more of said first plurality of protocol data units based on said metric of said queue

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(Lyons et al, Col 14, Lines 55-65) in said first congestible node (Lyons et al, Col 6, Lines 7-19). Lyon et al clearly shows on how packets are transmitted over the network from multiple number of sources while on route to the node(s), during the transmission the packets go through the switch before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider Claim 2, Lyon et al clearly discloses the method of claim 1 wherein said protocol data unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18) decides whether to drop a protocol data unit (Lyons et al, Col 6, Lines 25-30) based on Random Early Detection (Lyons et al, Col 1, Line 10, Col 6, Lines 50-60). Lyon et al clearly shows on the use of Random Early Detection in its switch for controlling congestion of packets passing through the network.

Consider Claim 3, Lyon et al clearly discloses the method of claim 1 wherein receiving a second plurality of protocol data units at a second input (Lyons et al Col 3, Lines 59-62) of said protocol data unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18), wherein all of the protocol data units received at said second input (Lyons et al Col 3, Lines 59-62) are en route to a second congestible node (Lyons et al, Col 6, Lines 7-19); receiving at said protocol data unit excisor (Lyons et al, Col 3 Line 58) a metric of a queue (Lyons et al, Col 14,

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Lines 55-65) in a said second congestible node (Lyons et al, Col 6, Lines 7-19); and selectively dropping (Lyons et al, Col 6, Lines 25-30), at said protocol data unit excisor (Lyons et al, Col 3 Line 58), one or more of said second plurality of protocol data units based on said metric of said queue (Lyons et al, Col 14, Lines 55-65) in said second congestible node (Lyons et al, Col 6, Lines 7-19). Lyon et al clearly shows on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider **Claim 4**, Lyon et al clearly discloses protocol data unit excisor (Lyons et al, Col 3 Line 58) comprising: a first input (Lyons et al Col 3, Lines 59-62) for receiving a first plurality of protocol data units, wherein all of the protocol data units received at said first input (Lyons et al Col 3, Lines 59-62) are en route to a first congestible node (Lyons et al, Col 6, Lines 7-19) a second input (Lyons et al Col 3, Lines 59-62) for receiving a metric of a queue (Lyons et al, Col 14, Lines 55-65) in a said first congestible node (Lyons et al, Col 6, Lines 7-19); and a processor for selectively dropping (Lyons et al, Col 6, Lines 25-30), one or more of said first plurality of protocol data units based on said metric of said queue (Lyons et al, Col 14, Lines 55-65) in said first congestible node (Lyons et al, Col 6, Lines 7-19). Lyon et al clearly shows on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go

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through the switch (protocol data unit excisor) before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider **Claim 5**, Lyon et al clearly discloses the protocol data unit excisor (Lyons et al, Col 3 Line 58) of claim 4 wherein said protocol-data-unit excisor (Lyons et al, Col 3 Line 58) decides whether to drop a protocol data unit (Lyons et al, Col 6, Lines 25-30) based on Random Early Detection (Lyons et al, Col 1, Line 10, Col 6, Lines 50-60). Lyon et al clearly shows on the use of Random Early Detection in its switch for controlling congestion of packets passing through the network.

Consider Claim 6, Lyon et al clearly discloses the protocol-data-unit excisor (Lyons et al, Col 3 Line 58) of claim 4 further comprising: a third input (Lyons et al Col 3, Lines 59-62) for receiving a second plurality of protocol data units, wherein all of the protocol data units received at said third input (Lyons et al Col 3, Lines 59-62) are en route to a second congestible node (Lyons et al, Col 6, Lines 7-19); a fourth input receiver (Lyons et al Col 3, Lines 59-62) for receiving a metric of a queue (Lyons et al, Col 14, Lines 55-65) in a said second congestible node (Lyons et al, Col 6, Lines 7-19); and a wherein said processor is also for selectively dropping (Lyons et al, Col 6, Lines 25-30), one or more of said second plurality of protocol data units based on said metric of said queue (Lyons et al, Col 14, Lines 55-65) in said second congestible node (Lyons et al, Col 6, Lines 7-19). Lyon et al clearly shows on how packets are transmitted over

the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch (protocol data unit excisor) before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider Claim 7, Lyon et al clearly discloses the method of receiving a first plurality of protocol data units at a first input (Lyons et al Col 3, Lines 59-62) of a protocol-data-unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18), wherein all of the protocol data units received at said first input (Lyons et al Col 3, Lines 59-62) are en route to a first congestible node (Lyons et al, Col 6, Lines 7-19); estimating in said protocol-data-unit excisor (Lyons et al, Col 3 Line 58) a first metric of a first queue (Lyons et al, Col 14, Lines 55-65) of protocol data units in said first congestible node (Lyons et al, Col 6, Lines 7-19) based on said first plurality of protocol data units; and selectively dropping (Lyons et al, Col 6, Lines 25-30), at said protocol-data-unit excisor (Lyons et al, Col 3 Line 58), one or more of said first plurality of protocol data units en route to said first congestible node (Lyons et al, Col 6, Lines 7-19) based on said first metric (Lyons et al, Col 14, Lines 55-65). Lyon et al clearly shows the method on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch (protocol data unit excisor) before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

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Consider Claim 8, Lyon et al clearly discloses the method of claim 7 wherein said protocol-data-unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18) decides whether to drop a protocol data unit (Lyons et al, Col 6, Lines 25-30) based on Random Early Detection (Lyons et al, Col 1, Line 10, Col 6, Lines 50-60). Lyon et al clearly shows on the use of Random Early Detection in its switch for controlling congestion of packets passing through the network.

Consider Claim 9, Lyon et al clearly discloses the method of claim 7 further comprising receiving a second plurality of protocol data units at a second input (Lyons et al Col 3, Lines 59-62) of said protocol data unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18), wherein all of the protocol data units received at said second input (Lyons et al Col 3, Lines 59-62) are en route to a second congestible node (Lyons et al, Col 6, Lines 7-19); estimating in said protocol data unit excisor (Lyons et al, Col 3 Line 58) a second metric of a second queue (Lyons et al, Col 14, Lines 55-65) of protocol data units in said second congestible node (Lyons et al, Col 6, Lines 7-19) based on said second plurality of protocol data units; and selectively dropping (Lyons et al, Col 6, Lines 25-30), at said protocol data unit excisor (Lyons et al Col 3, Lines 59-62), a one or more of said second plurality of protocol data units en route to said second congestible node (Lyons et al, Col 6, Lines 7-19) based on said second metric (Lyons et al, Col 14, Lines 55-65). Lyon

et al clearly shows the method on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch (protocol data unit excisor) before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider Claim 10, Lyon et al clearly discloses a protocol-data-unit excisor (Lyons et al. Col 3 Line 58) comprising: a first input (Lyons et al Col 3, Lines 59-62) for receiving a first plurality of protocol data units, wherein all of the protocol data units received at said first input (Lyons et al Col 3, Lines 59-62) are en route to a first congestible node (Lyons et al, Col 6, Lines 7-19); and a processor for estimating a first metric of a first queue of protocol data units in said first congestible node (Lyons et al, Col 6, Lines 7-19) based on said first plurality of protocol data units, and for selectively dropping (Lyons et al, Col 6, Lines 25-30) one or more of said first plurality of protocol data units en route to said first congestible node (Lyons et al, Col 6, Lines 7-19) based on said first metric (Lyons et al, Col 14, Lines 55-65). Lyon et al clearly shows the method on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch (protocol data unit excisor) before reaching the node(s), and within the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

Consider **Claim 11**, Lyon et al clearly discloses the method of claim 10 wherein protocol data unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18) decides whether to drop a protocol data unit (Lyons et al, Col 6, Lines 25-30) based on Random Early Detection (Lyons et al, Col 1, Line 10, Col 6, Lines 50-60). Lyon et al clearly shows on the use of Random Early Detection in its switch for controlling congestion of packets passing through the network.

Consider Claim 12, Lyon et al clearly discloses the protocol-data-unit excisor (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9. Lines 1-18) of claim 10 further comprising: a second input (Lyons et al Col 3, Lines 59-62) for receiving a second plurality of protocol data units, wherein all of the protocol data units received at said second input (Lyons et al Col 3, Lines 59-62) are en route to a second congestible node (Lyons et al, Col 6, Lines 7-19); and a processor for estimating a second metric of a second queue (Lyons et al, Col 14, Lines 55-65) of protocol data units in said second congestible node (Lyons et al, Col 6, Lines 7-19) based on said second plurality of protocol data units, and for selectively dropping (Lyons et al, Col 6, Lines 25-30) one or more of said second plurality of protocol data units en route to said second congestible node (Lyons et al, Col 6, Lines 7-19) based on said second metric (Lyons et al, Col 14, Lines 55-65). Lyon et al clearly shows the method on how packets are transmitted over the network from multiple number of sources while on route to the respective node(s), during the transmission the packets go through the switch (protocol data unit excisor) before reaching the node(s), and within

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the switch, it calculates based on metrics on whether to drop packets or allow packets to avoid traffic congestion at the node(s).

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Response to Arguments

Applicant's arguments filed on 7/24/07 have been fully considered but they are not persuasive.

In response to applicant's argument that in claims **1**, **4**, **7**, **10**, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Applicant argues because of reliance on an argument that Lyon et al does not disclose the method/unit described in claims 1, 4, 7 and 10. Applicant states that the method comprises "receiving a first plurality of protocol data units at a first input of a protocol-data-unit excisor, wherein all of the protocol data units received at said first input are en route to a first congestible node..." Applicant argues that the protocol-data-unit excisor does not perform a switching function on the protocol data units that arrive at the input.

Applicants own drawings in the application clearly show the use of a switching component with the use of protocol data excisor in the application (Garg et al, Fig 2, Fig 3, Fig 4, Fig 7, Fig 8, Fig 9,

Please refer to the reference cited by the Examiner (Lyon et al, US Pat 6,333,917).

Further more, the reference Lyon et al (US Pat 6,333,917) clearly shows on the use of a protocol-data-unit excisor, and it is not necessary for the unit to perform switching when transmitting data protocol units to the congestible nodes, as it can send the data protocol units without the aid of switching (Lyons et al, Col 3 Line 58, Col 4 Lines 1-46, Col 6 Lines 40-43, Col 8, Lines 65-67, Col 9, Lines 1-18).

Lyon et al also discloses where the switching fabric along with the line card which aids in data protocol unit transmission (Lyon et al, Col 6 Lines 40-60). The line card can be used in conjunction as a protocol-data excisor.

Lyon et al also discloses the use of marking rate generator which can also be used also as a protocol-data excisor unit, which receives data protocol unit, and this generator decides whether the packets get dropped or tagged for passing through the network (Lyon et al, Col 8 Lines 60-67, Col 9, Lines 1-18).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anish Sikri whose telephone number is 571-270-1783. The examiner can normally be reached on 8am - 5pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anish Sikri

a.s.

September 19, 2007

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